



Practice Gap Analysis and Topic Proposal Worksheet

Table of Contents

From the AOA Quality Guidelines for CME Activities 3

1. Practice gap analysis must be 3
2. Activities exempt from providing a practice gap analysis include 3
3. Examples of practice gap analysis tools include 3
4. Educational Objectives 3

AOA Needs Assessment Source Data (suggestions) 4

- US Government Resources 4
- Health Related Foundations/Organizations 4
- Disease Specific Organizations 4
- State Specific Organizations 4
- Journals Relative to the Specialties of Osteopathic Medicine 4
- Medical Journals 4
- Web Search Engines 5

AOBPM Occupational Medicine Tables of Specificity 6

- Table 1. Core – Distribution of Items Across Domains 6
- Table 2. Core Oral – Distribution of Items Across Domains 6
- Table 3. Public Health/Community Medicine Re-Certification – Distribution of Items Across Domains 7
- Table 4. Occupational/Environmental Medicine – Distribution of Items Across Domains 8
- Table 5. Occupational and Environmental Medicine Re-Certification – Distribution of Items Across Domains 8
- Table 6. Aerospace Medicine – Distribution of Items Across Domains 9
- Table 7. Aerospace Medicine Re-Certification – Distribution of Items Across Domains 9

AOBPM Exam Results Reports 2010-2014 10

- 2010-2014: Core 10
- 2010-2014: Public Health Osteopathic Continuous Certification 10
- 2010-2014: Aerospace Medicine Osteopathic Continuous Certification 11
- 2007-2014: Aerospace Medicine Certification 11
- 2010-2014: Undersea & Hypberbaric Medicine CAQ 12
- 2010-2014: Occupational Medicine Osteopathic Continuous Certification 12
- 2010-2014: Occupational Medicine CAQ 13

Topic Proposal Worksheet (all divisions) 14



American Osteopathic College of Occupational and Preventive Medicine



From the AOA Quality Guidelines for CME Activities

CME Sponsors shall systematically identify the practice gaps of prospective participants and use that information in planning CME activities.

1. **Practice gap analysis must be**
 - a. Conducted on an annual basis for repeated activities.
 - b. Produced for each topic.
 - c. Based on current data and analysis.
 - d. Documented with at least one evidenced-based source.
2. **Activities exempt from providing a practice gap analysis include**
 - e. OMM/OMT/OPP.
 - f. Activities addressing non-clinical core competencies (professionalism, communications, systems-based practice).
 - g. Faculty development activities.
 - h. State licensure requirements, such as risk management.
 - i. Board preparation courses.
 - k. Topics for which the AOA has specific policy endorsing or encouraging CME (need only refer to the specific policy e.g., Inhalation of Volatile Substances; Teenage Alcohol Abuse; and Training on Extended Release-Long Acting (ER/LA) Opioid Risk Evaluation and Mitigation Strategy (REMS), and Stimulant Abuse.
3. **Examples of practice gap analysis tools include**
 - a. Medical Audit (Identifying Needs)
 - i) Develop criteria of excellence
 - ii) Collect and summarize data
 - iii) Analyze and interpret data
 - b. Pre-Test item analysis (Identified Needs)
 - c. Self-Assessment (Identified Needs and Physician Perceived Needs)
 - d. Questionnaire (Physician Perceived Needs)
4. **Educational Objectives**

CME Sponsors shall develop learning objectives, based on identified gaps in knowledge, for each CME topic. The objectives shall state what physician knowledge, skills and attitudes are impacted or mastered by the conclusion of the activity, such as the correction of outdated knowledge and acquisition of new knowledge in specific areas, the mastering of new skills, or the changing of attitudes or habits.

CME Sponsors shall use the objectives developed for an educational activity to select the content and design the educational methods for that activity. Bloom's Taxonomy Action Verbs list is an excellent source for writing and developing learning objectives.

<https://www.tamug.edu/AcademicAffairs/documents/Blooms-Taxonomy-Action-Verbs.pdf>



AOA Needs Assessment Source Data (suggestions)

US Government Resources

- <http://www.health.gov> is a portal to the Web sites of a number of multi-agency health initiatives and activities of the [U.S. Department of Health and Human Services \(HHS\)](#) and other Federal departments and agencies. This site is coordinated by the [Office of Disease Prevention and Health Promotion](#), Office of Public Health and Science, Office of the Secretary, U.S. Department of Health and Human Services.
- United States Center for Disease Control <http://www.cdc.gov>
- National Institutes for Health <http://nih.gov>
- United States Preventative Services Task Force (USPSTF) <http://www.ahrq.gov/clinic/uspstfix.htm>
- Agency for Healthcare Research and Quality (AHRQ) <http://www.ahrq.gov/>

Health Related Foundations/Organizations

- The Henry J. Kaiser Family Foundation – Health Policy <http://kff.org/>
- The United Health Foundation – America’s Health Rankings (by state) <http://www.americashealthrankings.org/>
- The National Women’s Health Foundation <http://www.nationalwomenshealth.org/>
- National Public Health Information Coalition <http://www.nphic.org/>
- American Public Health Association <http://www.apha.org/>

Disease Specific Organizations

- American Cancer Society <http://www.cancer.org>
- American Diabetes Association <http://www.diabetes.org/>
- American Heart Association <http://www.americanheart.org/presenter.ihtml?identifier=1200000>
- American Lung Association <http://www.lungusa.org/>

State Specific Organizations

- Association of State and Territorial Health Officials <http://www.astho.org/>
- CDC Public Health Resources – State Departments of Health <http://www.cdc.gov/mmwr/international/relres.html>
- National Association of County and City Health Officials <http://www.naccho.org/>
- Most states have specific health statistical data available that may aid in determining need. For example: State of Illinois Health Statistics <http://www.idph.state.il.us/health/statshome.htm>

Journals Relative to the Specialties of Osteopathic Medicine

- Journal of the American Osteopathic Association <http://www.jaoa.org/>
- Journal of Osteopathic Medicine and Primary Care <http://www.om-pc.com/>
- Osteopathic Family Physician <http://www.acofp.org/resources/publications.aspx>
- Journal of the American College of Osteopathic Dermatology <http://www.aocd.org/jaocd/index.html>

Medical Journals

- Journal of the American Medical Association <http://jama.ama-assn.org/>
- American Family Physician <http://www.aocd.org/jaocd/index.html>
- Family Practice Management <http://www.aafp.org/online/en/home/publications/journals/fpm.html>
- The New England Journal of Medicine <http://content.nejm.org/>



Web Search Engines

- Journal Watch - Journal Watch reviews over 180 scientific and medical journals to present important clinical research findings and insightful commentary. <http://www.jwatch.org/>
- MedScape/MedScapeCME/WebMD – no fee but requires registration <http://www.medscape.com/>



AOBPM Occupational Medicine Tables of Specificity

Table 1. Core – Distribution of Items Across Domains

Domain	Distribution
Epidemiology	7%
Statistics	9%
Acute Disease Prevention	11%
Chronic Disease Prevention	4%
Maternal Health	7%
Health Care of Young	3%
Injuries	8%
Mental Health	7%
Mental Retardation	4%
Substance Abuse	3%
Occupational Medicine	7%
Environmental Medicine	2%
Legal Aspects of Medicine	8%
Medical Ethics	3%
Health Care Professionals	6%
Health Care Services	6%
Health Care Finance	5%
Total	100%

Table 2. Core Oral – Distribution of Items Across Domains

Domain	Distribution
Administration	33%
Clinical Topics	33%
Environment	33%
Total	100%

Please note, this table does not total to 100%



Table 3. Public Health/Community Medicine Re-Certification – Distribution of Items Across Domains

Domain	Distribution
Epidemiology and Statistics	16%
Acute Disease Prevention	15%
Chronic Disease Prevention	10%
Maternal and Child Health	4%
Injuries	10%
Mental Health and Retardation	5%
Substance Abuse	2%
Occupational and Environmental Medicine	6%
Legal Aspects of Medicine	4%
Medical Ethics	2%
Health Care Professionals	6%
Health Care Services and Finance	11%
Public Health Administration	4%
Infectious Disease	5%
Total	100%



Table 4. Occupational/Environmental Medicine – Distribution of Items Across Domains

Domain	Distribution
Treatment	20%
Rules and Regulations	15%
Epi/Biostat	5%
Health Management/Impairment	3%
Toxicology	20%
Hearing	5%
Dermatology	5%
Respiratory/Industrial Hygiene	20%
Reproductive	2%
Decompressions	1%
Vibrations	1%
Radiation	3%
Total	100%

Please note, this table does not total to 100%

Table 5. Occupational and Environmental Medicine Re-Certification – Distribution of Items Across Domains

Domain	Distribution
Epidemiology and Statistics	3%
Acute Disease Prevention	13%
Chronic Disease Prevention	5%
Impairment and Disability Evaluation	5%
Toxicology	12%
Injury Prevention	8%
Mental Health and Retardation	2%
Industrial Hygiene and Safety	12%
Substance Abuse	2%
Clinical Occupational and Environmental Medicine	13%
Legal and Regulatory Requirements	10%
Physical Hazards	7%
Biological Hazards	6%
Reproductive Hazards	2%
Total	100%



Table 6. Aerospace Medicine – Distribution of Items Across Domains

Domain	Distribution
History	3%
Biomechanics	15%
Civil Regulation	20%
Clinical Aerospace Medicine	45%
Environment of Flight	7%
Specialized Areas	10%
Total	100%

Table 7. Aerospace Medicine Re-Certification – Distribution of Items Across Domains

Domain	Distribution
History	2%
Biomechanics	15%
Legal and Regulatory Requirements	20%
Clinical Aerospace Medicine	20%
Environment of Flight	10%
Epidemiology and Statistics	6%
Injury Prevention	10%
Barometric Physiology	15%
Substance Abuse	2%
Total	100%



AOBPM Exam Results Reports 2010-2014

2010-2014: Core			
(Includes Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014)			
Overall: 15 candidates (9 passed, 6 failed)			
<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Acute Disease Prevention	42.90	64.55	100.00
Chronic Disease Prevention	50.00	64.16	92.30
Environmental Medicine	33.33	45.81	100.00
Epidemiology	50.00	54.10	84.62
Health Care Professionals	40.00	69.59	100.00
Health Care Services	25.00	78.43	67.00
Occupational Medicine	25.00	56.13	100.00
Statistics	37.00	77.03	100.00
Substance Abuse	14.30	71.58	85.70
*Results include 6 retakes			

2010-2014: Public Health Osteopathic Continuous Certification			
(Includes Spring 2010, Fall 2010, Spring 2011, Spring 2012)			
Overall: 11 candidates (6 passed, 5 failed)			
Multiple Choice Exam: 10 candidates (6 passed, 4 failed)			
Oral Exam: 0 candidates			
Essay Exam: 7 candidates (6 passed, 1 failed)			
<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Acute Disease Prevention	33.30	74.10	100.00
Biostatistics	50.00	88.88	100.00
Chronic Disease Prevention	0.00	50.00	50.00
Clinical Preventive Medicine	50.00	75.16	100.00
Epidemiology and Statistics	46.20	77.50	92.30
Evidence Based Medicine	0.00	86.66	100.00
General Preventive Medicine	33.30	66.90	100.00
Infectious Disease	0.00	86.65	100.00
Legal Aspects of Medicine	0.00	90.00	100.00
Occupational and Environmental	0.00	77.34	100.00
Public Health	55.60	87.32	100.00
Public Health Administration	0.00	30.85	100.00
Public Health Law	0.00	61.58	100.00
Study Design	40.00	69.35	86.00
*Results include 4 retake of Specialty MC, 1 retake of essay			
No Candidates in 2013 or 2014			



2010-2014: Aerospace Medicine Osteopathic Continuous Certification			
(Includes Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014)			
Overall: 7 candidates (7 passed, 0 failed)			
Multiple Choice Exam: 7 candidates (7 passed, 0 failed)			
Oral Exam: 0 candidates			
Essay Exam: 7 candidates (7 passed, 0 failed)			
<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Barometric Physiology	50.00	79.60	100.0
Biomechanics	62.50	86.30	100.0
Clinical Aerospace Medicine	68.75	85.50	100.0
Environment of Flight	33.33	66.92	100.0
Epidemiology and Statistics	33.00	70.00	100.0
History	0.00	54.99	100.0
Injury Prevention	50.00	82.78	100.0
Legal and Regulatory Requirements	50.00	81.34	100.0
Operational Aerospace Medicine	100.00	100.00	100.0
Substance Abuse	0.00	47.23	100.0

2007-2014: Aerospace Medicine Certification			
(Includes Spring 2007, Spring 2008, Spring 2009, Spring 2012)			
Overall: 13 candidates (6 passed, 7 failed)			
Multiple Choice Exam: 12 candidates (9 passed, 3 failed)			
Oral Exam: 8 candidates (8 passed, 0 failed)			
Essay Exam: 11 candidates (6 passed, 5 failed)			
<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Barometric Physiology	66.67	66.67	66.67
Biomechanics	66.67	66.67	66.67
Civil Regulations	100.00	100.00	100.00
Clinical Aerospace Medicine	31.00	51.43	57.00
Environment of Flight	62.50	54.63	62.50
Epidemiology and Statistics	100.00	100.00	100.00
History of Aerospace Medicine	42.00	73.58	83.00
Injury Prevention	25.00	25.00	25.00
Legal & Regulatory	100.00	100.00	100.00
Management and Administration	31.00	72.63	94.00
Operational Aerospace Medicine	61.00	67.25	78.00
Substance Abuse	100.00	100.00	100.00
*Results include 3 retakes of essay and 3 retakes of MC			
No Candidates in 2010, 2011, 2013 and 2014			



2010-2014: Undersea & Hypberbaric Medicine CAQ

(Includes Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Fall 2013, Spring 2014)

Overall: 41 candidates (32 passed, 9 failed)

Multiple Choice Exam: 41 candidates (32 passed, 9 failed)

Oral Exam: 0 candidates

Essay Exam: 0 candidates

<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Clinical Hyperbaric Medicine	51.16	64.24	84.21
Diving Medicine	43.20	55.50	77.30
Fundamentals	40.35	65.27	85.71
Research	0.00	74.35	100.00

*Results include 7 retakes of MC

2010-2014: Occupational Medicine Osteopathic Continuous Certification

(Includes Spring 2010, Fall 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014)

Overall: 24 candidates (24 passed, 0 failed)

Multiple Choice Exam: 23 candidates (23 passed, 0 failed)

Oral Exam: 0 candidates

Essay Exam: 23 candidates (23 passed, 0 failed)

<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Acute Disease Prevention	20.00	63.78	100.00
Biological Hazards	0.00	80.31	100.00
Chronic Disease Prevention	0.00	58.66	100.00
Clinical Occ & Env Med	0.00	70.43	100.00
Dermatology	50.00	77.77	100.00
Epidemiology and Statistics	0.00	59.85	100.00
Health Management	66.70	84.75	100.00
Hearing	50.00	78.90	100.00
Impairment and Disability Evaluation	20.00	65.67	100.00
Industrial Hygiene and Safety	40.00	70.15	100.00
Injury Prevention	67.00	89.40	100.00
Legal and Regulatory Requirements	0.00	61.58	100.00
Physical Hazards	50.00	94.17	100.00
Respiratory/Industrial Hygiene	50.00	67.10	100.00
Reproductive Hazards	0.00	68.24	100.00
Rules and Regulations	50.00	81.55	100.00
Substance Abuse	0.00	21.43	0.00
Toxicology	0.00	62.97	100.00
Treatment	0.00	92.45	100.00
Undefined	40.00	40.00	40.00

*Results include 2 retakes of 1 MC and 1 Essay



2010-2014: Occupational Medicine CAQ

(Includes Spring 2010, Fall 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014)

Overall: 29 candidates (21 passed, 8 failed)

Multiple Choice Exam: 24 candidates (20 passed, 4 failed)

Oral Exam: 0 candidates

Essay Exam: 28 candidates (22 passed, 6 failed)

<i>Table of Specifications</i>	<i>Group Minimum</i>	<i>Group Average</i>	<i>Group Maximum</i>
Acute Disease Prevention	38.00	59.59	90.00
Biological Hazards	25.00	47.10	100.00
Chronic Disease Prevention	50.00	78.18	100.00
Chronic Disease	100.00	100.00	100.00
Clinical Occ & Env Med	43.75	61.29	83.30
Epidemiology and Statistics	20.00	64.25	100.00
Impairment & Disability Evaluation	50.00	78.13	100.00
Industrial Hygiene and Safety	28.57	70.34	100.00
Injury Prevention	33.00	64.87	100.00
Legal & Regulatory Requirements	46.67	79.65	100.00
Mental Health & Retardation	0.00	50.00	100.00
Physical Hazards	50.00	89.77	100.00
Radiation	0.00	50.00	100.00
Reproductive Hazards	0.00	74.00	100.00
Rule and Regulation	0.00	0.00	0.00
Substance Abuse	0.00	25.91	100.00
Toxicology	48.00	67.78	87.00
Treatment	0.00	23.13	100.00
Undefined	0.00	52.50	80.00

*Results include 5 retakes of MC, 5 retakes of essay



Topic Proposal Worksheet (all divisions)

Suggested by: _____ E-mail address _____

Division: AM PH/PM OM (AM includes UHM; PH includes Correctional Medicine; and OM includes Disability Impairment Medicine).

Suggested Title of Learning Module:

Suggested Speaker(s) /Facilitator(s):

Which domain(s) from our AOBPM Table of Specificity will this topic cover?

To demonstrate a knowledge gap amongst our participants, please indicate the pass/fail rates from the most recently available AOBPM exam statistics on the domains covered.

Please cite statistics from the public domain which show that this topic has broad enough impact on the public to demonstrate that this education will meet a health need, i.e., prevalence rates of disease, stats on accidents/exposures, etc.

Learning objectives for this module:

Sources of information on this topic, including at least one evidence-based source:

How can this education best be delivered?

- Lecture; suggested length of lecture
- On-Site Occupational Medicine Learning Lab
- Round-table discussion
- Hands-on practicum
- Other _____

Estimated time needed to present? _____